

$\psi(4040)$ 

$$I^G(J^{PC}) = 0^-(1^{--})$$

NODE=M072

 $\psi(4040)$  MASS

VALUE (MeV)	DOCUMENT ID	TECN	COMMENT
<b>4039 ± 1 OUR ESTIMATE</b>			
<b>4039.6 ± 4.3</b>	<sup>1</sup> ABLIKIM	08D BES2	$e^+e^- \rightarrow$ hadrons
• • • We do not use the following data for averages, fits, limits, etc. • • •			
4034 ± 6	<sup>2</sup> MO	10 RVUE	$e^+e^- \rightarrow$ hadrons
4037 ± 2	<sup>3</sup> SETH	05A RVUE	$e^+e^- \rightarrow$ hadrons
4040 ± 1	<sup>4</sup> SETH	05A RVUE	$e^+e^- \rightarrow$ hadrons
4040 ± 10	BRANDELIK	78C DASP	$e^+e^-$
<sup>1</sup> Reanalysis of data presented in BAI 02C. From a global fit over the center-of-mass energy region 3.7–5.0 GeV covering the $\psi(3770)$ , $\psi(4040)$ , $\psi(4160)$ , and $\psi(4415)$ resonances. Phase angle fixed in the fit to $\delta = (130 \pm 46)^\circ$ .			
<sup>2</sup> Reanalysis of data presented in BAI 00 and BAI 02C. From a global fit over the center-of-mass energy 3.8–4.8 GeV covering the $\psi(4040)$ , $\psi(4160)$ and $\psi(4415)$ resonances and including interference effects.			
<sup>3</sup> From a fit to Crystal Ball (OSTERHELD 86) data.			
<sup>4</sup> From a fit to BES (BAI 02C) data.			

NODE=M072M

NODE=M072M  
→ UNCHECKED ←

OCCUR=2

NODE=M072M;LINKAGE=AB

NODE=M072M;LINKAGE=MO

NODE=M072M;LINKAGE=ST  
NODE=M072M;LINKAGE=SE $\psi(4040)$  WIDTH

VALUE (MeV)	DOCUMENT ID	TECN	COMMENT
<b>80 ± 10 OUR ESTIMATE</b>			
<b>84.5 ± 12.3</b>	<sup>5</sup> ABLIKIM	08D BES2	$e^+e^- \rightarrow$ hadrons
• • • We do not use the following data for averages, fits, limits, etc. • • •			
87 ± 11	<sup>6</sup> MO	10 RVUE	$e^+e^- \rightarrow$ hadrons
85 ± 10	<sup>7</sup> SETH	05A RVUE	$e^+e^- \rightarrow$ hadrons
89 ± 6	<sup>8</sup> SETH	05A RVUE	$e^+e^- \rightarrow$ hadrons
52 ± 10	BRANDELIK	78C DASP	$e^+e^-$
<sup>5</sup> Reanalysis of data presented in BAI 02C. From a global fit over the center-of-mass energy region 3.7–5.0 GeV covering the $\psi(3770)$ , $\psi(4040)$ , $\psi(4160)$ , and $\psi(4415)$ resonances. Phase angle fixed in the fit to $\delta = (130 \pm 46)^\circ$ .			
<sup>6</sup> Reanalysis of data presented in BAI 00 and BAI 02C. From a global fit over the center-of-mass energy 3.8–4.8 GeV covering the $\psi(4040)$ , $\psi(4160)$ and $\psi(4415)$ resonances and including interference effects.			
<sup>7</sup> From a fit to Crystal Ball (OSTERHELD 86) data.			
<sup>8</sup> From a fit to BES (BAI 02C) data.			

NODE=M072W

NODE=M072W  
→ UNCHECKED ←

OCCUR=2

NODE=M072W;LINKAGE=AB

NODE=M072W;LINKAGE=MO

NODE=M072W;LINKAGE=ST  
NODE=M072W;LINKAGE=SE $\psi(4040)$  DECAY MODES

Due to the complexity of the  $c\bar{c}$  threshold region, in this listing, “seen” (“not seen”) means that a cross section for the mode in question has been measured at effective  $\sqrt{s}$  near this particle’s central mass value, more (less) than  $2\sigma$  above zero, without regard to any peaking behavior in  $\sqrt{s}$  or absence thereof. See mode listing(s) for details and references.

NODE=M072215;NODE=M072

NODE=M072

Mode	Fraction ( $\Gamma_i/\Gamma$ )	Confidence level
$\Gamma_1$ $e^+e^-$	$(1.07 \pm 0.16) \times 10^{-5}$	DESIG=5
$\Gamma_2$ $D\bar{D}$	seen	DESIG=17;OUR EST;→ UNCHECKED ←
$\Gamma_3$ $D^0\bar{D}^0$	seen	DESIG=1
$\Gamma_4$ $D^+D^-$	seen	DESIG=18
$\Gamma_5$ $D^*\bar{D} + c.c.$	seen	DESIG=19;OUR EST;→ UNCHECKED ←
$\Gamma_6$ $D^*(2007)^0\bar{D}^0 + c.c.$	seen	DESIG=2
$\Gamma_7$ $D^*(2010)^+D^- + c.c.$	seen	DESIG=20
$\Gamma_8$ $D^*\bar{D}^*$	seen	DESIG=21;OUR EST;→ UNCHECKED ←
$\Gamma_9$ $D^*(2007)^0\bar{D}^*(2007)^0$	seen	DESIG=3
$\Gamma_{10}$ $D^*(2010)^+D^*(2010)^-$	seen	DESIG=22
$\Gamma_{11}$ $D\bar{D}\pi$ (excl. $D^*\bar{D}$ )		DESIG=23
$\Gamma_{12}$ $D^0D^-\pi^+ + c.c.$ (excl. $D^*(2007)^0\bar{D}^0 + c.c.$ , $D^*(2010)^+D^- + c.c.$ )	not seen	DESIG=24
$\Gamma_{13}$ $D\bar{D}^*\pi$ (excl. $D^*\bar{D}^*$ )	not seen	DESIG=25

$\Gamma_{14}$	$D^0 \bar{D}^{*-} \pi^+ + \text{c.c. (excl. } D^*(2010)^+ D^*(2010)^-)$	seen				DESIG=26
$\Gamma_{15}$	$D_s^+ D_s^-$	seen				DESIG=27
$\Gamma_{16}$	$J/\psi(1S)$ hadrons					DESIG=4
$\Gamma_{17}$	$J/\psi \pi^+ \pi^-$	$< 4$	$\times 10^{-3}$	90%		DESIG=7
$\Gamma_{18}$	$J/\psi \pi^0 \pi^0$	$< 2$	$\times 10^{-3}$	90%		DESIG=8
$\Gamma_{19}$	$J/\psi \eta$	$(5.2 \pm 0.7)$	$\times 10^{-3}$			DESIG=9
$\Gamma_{20}$	$J/\psi \pi^0$	$< 2.8$	$\times 10^{-4}$	90%		DESIG=10
$\Gamma_{21}$	$J/\psi \pi^+ \pi^- \pi^0$	$< 2$	$\times 10^{-3}$	90%		DESIG=11
$\Gamma_{22}$	$\chi_{c1} \gamma$	$< 1.1$	%	90%		DESIG=12
$\Gamma_{23}$	$\chi_{c2} \gamma$	$< 1.7$	%	90%		DESIG=13
$\Gamma_{24}$	$\chi_{c1} \pi^+ \pi^- \pi^0$	$< 1.1$	%	90%		DESIG=14
$\Gamma_{25}$	$\chi_{c2} \pi^+ \pi^- \pi^0$	$< 3.2$	%	90%		DESIG=15
$\Gamma_{26}$	$h_c(1P) \pi^+ \pi^-$	$< 3$	$\times 10^{-3}$	90%		DESIG=28
$\Gamma_{27}$	$\phi \pi^+ \pi^-$	$< 3$	$\times 10^{-3}$	90%		DESIG=16
$\Gamma_{28}$	$\mu^+ \mu^-$					DESIG=6

### $\psi(4040)$ PARTIAL WIDTHS

NODE=M072220

 $\Gamma(e^+ e^-)$  $\Gamma_1$ 

VALUE (keV)

DOCUMENT ID

TECN

COMMENT

**0.86±0.07 OUR ESTIMATE****0.83±0.20**<sup>9</sup> ABLIKIM 08D BES2  $e^+ e^- \rightarrow$  hadrons

• • • We do not use the following data for averages, fits, limits, etc. • • •

0.6 to 1.4

<sup>10</sup> MO 10 RVUE  $e^+ e^- \rightarrow$  hadrons

0.88±0.11

<sup>11</sup> SETH 05A RVUE  $e^+ e^- \rightarrow$  hadrons

0.91±0.13

<sup>12</sup> SETH 05A RVUE  $e^+ e^- \rightarrow$  hadrons

0.75±0.15

BRANDELIK 78C DASP  $e^+ e^-$ 

NODE=M072W5

NODE=M072W5

→ UNCHECKED ←

OCCUR=2

<sup>9</sup> Reanalysis of data presented in BAI 02C. From a global fit over the center-of-mass energy region 3.7–5.0 GeV covering the  $\psi(3770)$ ,  $\psi(4040)$ ,  $\psi(4160)$ , and  $\psi(4415)$  resonances. Phase angle fixed in the fit to  $\delta = (130 \pm 46)^\circ$ .

NODE=M072W5;LINKAGE=AB

<sup>10</sup> Reanalysis of data presented in BAI 00 and BAI 02C. From a global fit over the center-of-mass energy 3.8–4.8 GeV covering the  $\psi(4040)$ ,  $\psi(4160)$  and  $\psi(4415)$  resonances and including interference effects. Four sets of solutions are obtained with the same fit quality, mass and total width, but with different  $e^+ e^-$  partial widths. We quote only the range of values.

NODE=M072W5;LINKAGE=MO

<sup>11</sup> From a fit to Crystal Ball (OSTERHELD 86) data.

NODE=M072W5;LINKAGE=ST

<sup>12</sup> From a fit to BES (BAI 02C) data.

NODE=M072W5;LINKAGE=SE

### $\psi(4040)$ BRANCHING RATIOS

NODE=M072225

 $\Gamma(e^+ e^-)/\Gamma_{\text{total}}$  $\Gamma_1/\Gamma$ VALUE (units  $10^{-5}$ )

DOCUMENT ID

TECN

COMMENT

• • • We do not use the following data for averages, fits, limits, etc. • • •

~ 1.0

FELDMAN 77 MRK1  $e^+ e^-$ 

NODE=M072R4

NODE=M072R4

 $\Gamma(D^0 \bar{D}^0)/\Gamma_{\text{total}}$  $\Gamma_3/\Gamma$ 

VALUE

DOCUMENT ID

TECN

COMMENT

seen

AUBERT 09M BABR  $e^+ e^- \rightarrow D^0 \bar{D}^0 \gamma$ 

seen

CRONIN-HEN..09 CLEO  $e^+ e^- \rightarrow D^0 \bar{D}^0$ 

seen

PAKHLOVA 08 BELL  $e^+ e^- \rightarrow D^0 \bar{D}^0 \gamma$ 

NODE=M072R14

NODE=M072R14

 $\Gamma(D^+ D^-)/\Gamma_{\text{total}}$  $\Gamma_4/\Gamma$ 

VALUE

DOCUMENT ID

TECN

COMMENT

seen

AUBERT 09M BABR  $e^+ e^- \rightarrow D^+ D^- \gamma$ 

seen

CRONIN-HEN..09 CLEO  $e^+ e^- \rightarrow D^+ D^-$ 

seen

PAKHLOVA 08 BELL  $e^+ e^- \rightarrow D^+ D^- \gamma$ 

NODE=M072R15

NODE=M072R15

 $\Gamma(D\bar{D})/\Gamma(D^* \bar{D} + \text{c.c.})$  $\Gamma_2/\Gamma_5$ 

VALUE

DOCUMENT ID

TECN

COMMENT

**0.24±0.05±0.12**AUBERT 09M BABR  $e^+ e^- \rightarrow \gamma D^{(*)} \bar{D}$ 

NODE=M072R12

NODE=M072R12

$$\Gamma(D^0 \bar{D}^0) / \Gamma(D^*(2007)^0 \bar{D}^0 + \text{c.c.})$$

 $\Gamma_3/\Gamma_6$ 

VALUE	DOCUMENT ID	TECN	COMMENT
<b>0.05±0.03</b>	<sup>13</sup> GOLDHABER 77	MRK1	$e^+ e^-$

NODE=M072R1  
 NODE=M072R1

<sup>13</sup> Phase-space factor ( $p^3$ ) explicitly removed.

NODE=M072R;LINKAGE=P

$$\Gamma(D^*(2007)^0 \bar{D}^0 + \text{c.c.}) / \Gamma_{\text{total}}$$

 $\Gamma_6/\Gamma$ 

VALUE	DOCUMENT ID	TECN	COMMENT
<b>seen</b>	AUBERT 09M	BABR	$e^+ e^- \rightarrow D^{*0} \bar{D}^0 \gamma$
<b>seen</b>	CRONIN-HEN..09	CLEO	$e^+ e^- \rightarrow D^{*0} \bar{D}^0$

NODE=M072R16  
 NODE=M072R16

$$\Gamma(D^*(2010)^+ D^- + \text{c.c.}) / \Gamma_{\text{total}}$$

 $\Gamma_7/\Gamma$ 

VALUE	DOCUMENT ID	TECN	COMMENT
<b>seen</b>	AUBERT 09M	BABR	$e^+ e^- \rightarrow D^{*+} D^- \gamma$
<b>seen</b>	CRONIN-HEN..09	CLEO	$e^+ e^- \rightarrow D^{*+} D^-$
<b>seen</b>	PAKHLOVA 07	BELL	$e^+ e^- \rightarrow D^{*+} D^- \gamma$

NODE=M072R17  
 NODE=M072R17

$$\Gamma(D^*(2010)^+ D^- + \text{c.c.}) / \Gamma(D^*(2007)^0 \bar{D}^0 + \text{c.c.})$$

 $\Gamma_7/\Gamma_6$ 

VALUE	DOCUMENT ID	TECN	COMMENT
<b>0.95±0.09±0.10</b>	AUBERT 09M	BABR	$e^+ e^- \rightarrow \gamma D^* \bar{D}$

NODE=M072R11  
 NODE=M072R11

$$\Gamma(D^* \bar{D}^*) / \Gamma(D^* \bar{D} + \text{c.c.})$$

 $\Gamma_8/\Gamma_5$ 

VALUE	DOCUMENT ID	TECN	COMMENT
<b>0.18±0.14±0.03</b>	AUBERT 09M	BABR	$e^+ e^- \rightarrow \gamma D^{(*)} \bar{D}^{(*)}$

NODE=M072R13  
 NODE=M072R13

$$\Gamma(D^*(2007)^0 \bar{D}^*(2007)^0) / \Gamma_{\text{total}}$$

 $\Gamma_9/\Gamma$ 

VALUE	DOCUMENT ID	TECN	COMMENT
<b>seen</b>	AUBERT 09M	BABR	$e^+ e^- \rightarrow D^{*0} \bar{D}^{*0} \gamma$
<b>seen</b>	CRONIN-HEN..09	CLEO	$e^+ e^- \rightarrow D^{*0} \bar{D}^{*0}$

NODE=M072R18  
 NODE=M072R18

$$\Gamma(D^*(2007)^0 \bar{D}^*(2007)^0) / \Gamma(D^*(2007)^0 \bar{D}^0 + \text{c.c.})$$

 $\Gamma_9/\Gamma_6$ 

VALUE	DOCUMENT ID	TECN	COMMENT
<b>32.0±12.0</b>	<sup>14</sup> GOLDHABER 77	MRK1	$e^+ e^-$

NODE=M072R2  
 NODE=M072R2

<sup>14</sup> Phase-space factor ( $p^3$ ) explicitly removed.

NODE=M072R2;LINKAGE=P

$$\Gamma(D^*(2010)^+ D^*(2010)^-) / \Gamma_{\text{total}}$$

 $\Gamma_{10}/\Gamma$ 

VALUE	DOCUMENT ID	TECN	COMMENT
<b>seen</b>	AUBERT 09M	BABR	$e^+ e^- \rightarrow D^{*+} D^{*-} \gamma$
<b>seen</b>	CRONIN-HEN..09	CLEO	$e^+ e^- \rightarrow D^{*+} D^{*-}$
<b>seen</b>	PAKHLOVA 07	BELL	$e^+ e^- \rightarrow D^{*+} D^{*-} \gamma$

NODE=M072R19  
 NODE=M072R19

$$\Gamma(D^0 D^- \pi^+ + \text{c.c. (excl. } D^*(2007)^0 \bar{D}^0 + \text{c.c., } D^*(2010)^+ D^- + \text{c.c.})) /$$

 $\Gamma_{\text{total}}$  $\Gamma_{12}/\Gamma$ 

VALUE	DOCUMENT ID	TECN	COMMENT
<b>not seen</b>	PAKHLOVA 08A	BELL	$e^+ e^- \rightarrow D^0 D^- \pi^+ \gamma$

NODE=M072R20  
 NODE=M072R20

$$\Gamma(D \bar{D}^* \pi (\text{excl. } D^* \bar{D}^*)) / \Gamma_{\text{total}}$$

 $\Gamma_{13}/\Gamma$ 

VALUE	DOCUMENT ID	TECN	COMMENT
<b>not seen</b>	CRONIN-HEN..09	CLEO	$e^+ e^- \rightarrow D \bar{D}^* \pi$

NODE=M072R21  
 NODE=M072R21

$$\Gamma(D^0 \bar{D}^{*-} \pi^+ + \text{c.c. (excl. } D^*(2010)^+ D^*(2010)^-)) / \Gamma_{\text{total}}$$

 $\Gamma_{14}/\Gamma$ 

VALUE	DOCUMENT ID	TECN	COMMENT
<b>seen</b>	PAKHLOVA 09	BELL	$e^+ e^- \rightarrow D^0 D^{*-} \pi^+ \gamma$

NODE=M072R22  
 NODE=M072R22

$$\Gamma(D_s^+ D_s^-) / \Gamma_{\text{total}}$$

 $\Gamma_{15}/\Gamma$ 

VALUE	DOCUMENT ID	TECN	COMMENT
<b>seen</b>	PAKHLOVA 11	BELL	$e^+ e^- \rightarrow D_s^+ D_s^- \gamma$
<b>seen</b>	DEL-AMO-SA..10N	BABR	$e^+ e^- \rightarrow D_s^+ D_s^- \gamma$
<b>seen</b>	CRONIN-HEN..09	CLEO	$e^+ e^- \rightarrow D_s^+ D_s^-$

NODE=M072R23  
 NODE=M072R23

$$\Gamma(J/\psi \pi^+ \pi^-) / \Gamma_{\text{total}}$$

 $\Gamma_{17}/\Gamma$ 

VALUE (units $10^{-3}$ )	CL%	DOCUMENT ID	TECN	COMMENT
<b>&lt;4</b>	90	COAN 06	CLEO	$3.97-4.06 e^+ e^- \rightarrow \text{hadrons}$

NODE=M072R01  
 NODE=M072R01

$\Gamma(J/\psi\pi^0\pi^0)/\Gamma_{\text{total}}$  $\Gamma_{18}/\Gamma$ 

VALUE (units $10^{-3}$ )	CL%	DOCUMENT ID	TECN	COMMENT
<2	90	COAN	06	CLEO 3.97-4.06 $e^+e^- \rightarrow$ hadrons

NODE=M072R02  
 NODE=M072R02

 $\Gamma(J/\psi\eta)/\Gamma_{\text{total}}$  $\Gamma_{19}/\Gamma$ 

VALUE (units $10^{-3}$ )	CL%	DOCUMENT ID	TECN	COMMENT
<b>5.2±0.5±0.5</b>		<sup>15</sup> ABLIKIM	12K	BES3 $e^+e^- \rightarrow \ell^+\ell^-2\gamma$

• • • We do not use the following data for averages, fits, limits, etc. • • •

<7	90	COAN	06	CLEO 3.97-4.06 $e^+e^- \rightarrow$ hadrons
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<sup>15</sup> ABLIKIM 12K measure  $\sigma(e^+e^- \rightarrow J/\psi\eta) = 32.1 \pm 2.8 \pm 1.3$  pb. They assume the  $\eta J/\psi$  fully originates from  $\psi(4040)$  decays.

NODE=M072R03  
 NODE=M072R03

NODE=M072R03;LINKAGE=AB

 $\Gamma(J/\psi\pi^0)/\Gamma_{\text{total}}$  $\Gamma_{20}/\Gamma$ 

VALUE (units $10^{-3}$ )	CL%	DOCUMENT ID	TECN	COMMENT
<b>&lt;0.28 (CL = 90%)</b>		[<2 × 10 <sup>-3</sup> (CL = 90%) OUR 2012 BEST LIMIT]		
<b>&lt;0.28</b>	90	<sup>16</sup> ABLIKIM	12K	BES3 $e^+e^- \rightarrow \ell^+\ell^-2\gamma$

• • • We do not use the following data for averages, fits, limits, etc. • • •

<2	90	COAN	06	CLEO 3.97-4.06 $e^+e^- \rightarrow$ hadrons
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<sup>16</sup> ABLIKIM 12K measure  $\sigma(e^+e^- \rightarrow J/\psi\pi^0) < 1.6$  pb. They assume the  $\eta J/\psi$  fully originates from  $\psi(4040)$  decays.

NODE=M072R04  
 NODE=M072R04

NODE=M072R04;LINKAGE=AB

 $\Gamma(J/\psi\pi^+\pi^-\pi^0)/\Gamma_{\text{total}}$  $\Gamma_{21}/\Gamma$ 

VALUE (units $10^{-3}$ )	CL%	DOCUMENT ID	TECN	COMMENT
<2	90	COAN	06	CLEO 3.97-4.06 $e^+e^- \rightarrow$ hadrons

NODE=M072R05  
 NODE=M072R05

 $\Gamma(\chi_{c1}\gamma)/\Gamma_{\text{total}}$  $\Gamma_{22}/\Gamma$ 

VALUE (units $10^{-3}$ )	CL%	DOCUMENT ID	TECN	COMMENT
<11	90	COAN	06	CLEO 3.97-4.06 $e^+e^- \rightarrow$ hadrons

NODE=M072R06  
 NODE=M072R06

 $\Gamma(\chi_{c2}\gamma)/\Gamma_{\text{total}}$  $\Gamma_{23}/\Gamma$ 

VALUE (units $10^{-3}$ )	CL%	DOCUMENT ID	TECN	COMMENT
<17	90	COAN	06	CLEO 3.97-4.06 $e^+e^- \rightarrow$ hadrons

NODE=M072R07  
 NODE=M072R07

 $\Gamma(\chi_{c1}\pi^+\pi^-\pi^0)/\Gamma_{\text{total}}$  $\Gamma_{24}/\Gamma$ 

VALUE (units $10^{-3}$ )	CL%	DOCUMENT ID	TECN	COMMENT
<11	90	COAN	06	CLEO 3.97-4.06 $e^+e^- \rightarrow$ hadrons

NODE=M072R08  
 NODE=M072R08

 $\Gamma(\chi_{c2}\pi^+\pi^-\pi^0)/\Gamma_{\text{total}}$  $\Gamma_{25}/\Gamma$ 

VALUE (units $10^{-3}$ )	CL%	DOCUMENT ID	TECN	COMMENT
<32	90	COAN	06	CLEO 3.97-4.06 $e^+e^- \rightarrow$ hadrons

NODE=M072R09  
 NODE=M072R09

 $\Gamma(h_c(1P)\pi^+\pi^-)/\Gamma_{\text{total}}$  $\Gamma_{26}/\Gamma$ 

VALUE (units $10^{-3}$ )	CL%	DOCUMENT ID	TECN	COMMENT
<3	90	<sup>17</sup> PEDLAR	11	CLEO $e^+e^- \rightarrow h_c(1P)\pi^+\pi^-$

NODE=M072R24  
 NODE=M072R24

<sup>17</sup> From several values of  $\sqrt{s}$  near the peak of the  $\psi(4040)$ , PEDLAR 11 measures  $\sigma(e^+e^- \rightarrow h_c(1P)\pi^+\pi^-) = 1.0 \pm 8.0 \pm 5.4 \pm 0.2$  pb, where the errors are statistical, systematic, and due to uncertainty in  $B(\psi(2S) \rightarrow \pi^0 h_c(1P))$ , respectively.

NODE=M072R24;LINKAGE=PE

 $\Gamma(\phi\pi^+\pi^-)/\Gamma_{\text{total}}$  $\Gamma_{27}/\Gamma$ 

VALUE (units $10^{-3}$ )	CL%	DOCUMENT ID	TECN	COMMENT
<3	90	COAN	06	CLEO 3.97-4.06 $e^+e^- \rightarrow$ hadrons

NODE=M072R10  
 NODE=M072R10

 $\psi(4040)$  REFERENCES

NODE=M072

ABLIKIM	12K	PR D86 071101	M. Ablikim <i>et al.</i>	(BES III Collab.)	REFID=54738
PAKHOVA	11	PR D83 011101	G. Pakhlova <i>et al.</i>	(BELLE Collab.)	REFID=53638
PEDLAR	11	PRL 107 041803	T. Pedlar <i>et al.</i>	(CLEO Collab.)	REFID=16787
DEL-AMO-SA...	10N	PR D82 052004	P. del Amo Sanchez <i>et al.</i>	(BABAR Collab.)	REFID=53532
MO	10	PR D82 077501	X.H. Mo, C.Z. Yuan, P. Wang	(BHEP)	REFID=53540
AUBERT	09M	PR D79 092001	B. Aubert <i>et al.</i>	(BABAR Collab.)	REFID=52724
CRONIN-HEN...	09	PR D80 072001	D. Cronin-Hennessy <i>et al.</i>	(CLEO Collab.)	REFID=53114
PAKHOVA	09	PR D80 091101	G. Pakhlova <i>et al.</i>	(BELLE Collab.)	REFID=53143
ABLIKIM	08D	PL B660 315	M. Ablikim <i>et al.</i>	(BES Collab.)	REFID=52142
PAKHOVA	08	PR D77 011103	G. Pakhlova <i>et al.</i>	(BELLE Collab.)	REFID=52132

PAKHLOVA	08A	PRL 100 062001	G. Pakhlova <i>et al.</i>	(BELLE Collab.)	REFID=52134
PAKHLOVA	07	PRL 98 092001	G. Pakhlova <i>et al.</i>	(BELLE Collab.)	REFID=51628
COAN	06	PRL 96 162003	T.E. Coan <i>et al.</i>	(CLEO Collab.)	REFID=51075
SETH	05A	PR D72 017501	K.K. Seth		REFID=50813
BAI	02C	PRL 88 101802	J.Z. Bai <i>et al.</i>	(BES Collab.)	REFID=50506
BAI	00	PRL 84 594	J.Z. Bai <i>et al.</i>	(BES Collab.)	REFID=50503
OSTERHELD	86	SLAC-PUB-4160	A. Osterheld <i>et al.</i>	(SLAC Crystal Ball Collab.)	REFID=51064
BRANDELIK	78C	PL 76B 361	R. Brandelik <i>et al.</i>	(DASP Collab.)	REFID=22232
Also		ZPHY C1 233	R. Brandelik <i>et al.</i>	(DASP Collab.)	REFID=22114
FELDMAN	77	PRPL 33C 285	G.J. Feldman, M.L. Perl	(LBL, SLAC)	REFID=22062
GOLDHABER	77	PL 69B 503	G. Goldhaber <i>et al.</i>	(Mark I Collab.)	REFID=11434

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